

20030409.qrp v02_n885.qrl.20030409

Date: Wed, 9 Apr 2003 19:03:04 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2885

QRP-L Digest 2885

Topics covered in this issue include:

- 1) [148766] Nor'Easter For Sale
by Casey Ray <clray@usc.edu>
- 2) [148767] Re: Small satellite computer
by "Karl F. Larsen" <k5di@zianet.com>
- 3) [148768] FS: New SWL PSK20 Kit
by mjfitz@uswest.net
- 4) [148769] Portable Power Supply Capacity - [LONG]
by "Mike Majority" <n4vbv@earthlink.net>
- 5) [148770] Interesting SMT Inductor observation...
by Ed Tanton <n4xy@earthlink.net>
- 6) [148771] 'Rock-Mite RTTY' project docs have begun...
by "Bill, N4QA" <n4qa@hotmail.com>
- 7) [148772] FS or Trade
by "Dave Martin" <k2zu@seanet.com>
- 8) [148773] Re: Ten-Tec Argo V
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
- 9) [148774] National Semiconductor Analog education site
by Jeff Furman <jfurman@ocs.net>
- 10) [148775] Re: Interesting SMT Inductor observation...
by "Merton Nellis" <mertnellis@msn.com>
- 11) [148776] SP posts?
by "sslyon" <sslyon@megalink.net>
- 12) [148777] sgc 2020 adsp
by "Adam Vazquez Kb2Jpd" <adamvaz@palm.net>
- 13) [148778] Wake Up!
by Alex <kr1st@amsat.org>
- 14) [148779] Four State QRP Group Wednesday Warble
by "David Bixler" <qrp@netins.net>
- 15) [148780] Results NEQRP SSB NET
by "Ron Pfeiffer" <n1zsw@hotmail.com>
- 16) [148781] AT Sprint - was Re: SP posts?
by "John_Evans" <jaevans@mail.codenet.net>
- 17) [148782] Re: Radix HF Dipoles
by "Adam Vazquez Kb2Jpd" <adamvaz@palm.net>
- 18) [148783] Re: Results NEQRP SSB NET
by Alex <kr1st@amsat.org>
- 19) [148784] Spartan Sprint Logs Due

- by "John Huffman" <hjohnc@core.com>
- 20) [148785] Free manuals READ
by N4SKS@cs.com
- 21) [148786] RIG Trade ?
by N4SKS@cs.com
- 22) [148787] Weather/Band Conditions
by W2AGN <w2agn@w2agn.net>
- 23) [148788] Antennex
by "Juan Ferrari" <puntrad@usa.net>
- 24) [148789] Re: Small satellite computer
by "laura halliday" <marsgal42@hotmail.com>
- 25) [148790] Re: AT Sprint - was Re: SP posts?
by "Doug Hendricks" <ki6ds@dph.dpol.net>
- 26) [148791] FS: Ten Tec 1206 Transverter
by "Ed Kessler" <aa3sj@arrl.net>
- 27) [148792] Re: Radix HF Dipoles
by "Walter AG5P" <walter@accessus.net>
- 28) [148793] Re: 'Rock-Mite RTTY' project docs have begun...
by <stanw@toxso.com>
- 29) [148794] Re: Weather/Band Conditions
by Alex <kr1st@amsat.org>
- 30) [148795] Re: AT Sprint - was Re: SP posts?
by Trevor Jacobs <kg6cyn@earthlink.net>
- 31) [148796] Re: 'Rock-Mite RTTY' project docs have begun...
by "KB9BVN" <brian@iquet.net>
- 32) [148797] Re: Small satellite computer
by David Ek <ekdave@earthlink.net>
- 33) [148798] Re: Small satellite computer
by David Hinerman <WD8CIV@worldnet.att.net>
- 34) [148799] Antenna reel in an altoids tin??
by "Brockwell, Stephen E. CECOM SEC FSSE GPI"
<steve.brockwell@us.army.mil>
- 35) [148800] Re: AT Sprint - was Re: SP posts?
by "Brockwell, Stephen E. CECOM SEC FSSE GPI"
<steve.brockwell@us.army.mil>
- 36) [148801] 2M beam from FM or TV antenna
by "Mike Yetsko" <myetsko@insydesw.com>
- 37) [148802] Re: Small satellite computer
by Bob Nielsen <nielsen@oz.net>

Date: Tue, 08 Apr 2003 14:53:41 -0700
From: Casey Ray <clray@usc.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [148766] Nor'Easter For Sale
Message-ID: <3E9344E5.2F8824C7@usc.edu>
MIME-version: 1.0

Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

I have an unbuilt NorCal Nor'Easter short wave AM receiver for sale. I have had the receiver's cpu reprogrammed by Steve Weber. Asking what I paid, \$50.

73 de Casey
AD6DI

Date: Tue, 8 Apr 2003 18:08:12 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: David Hinerman <WD8CIV@worldnet.att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [148767] Re: Small satellite computer
Message-ID: <Pine.LNX.4.44.0304081804340.2986-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

No dates, and frequency will be standard 2 meter APRS frequency and others not to be made public. The radio is a Kenwood HT and will be using a real TNC which will support packet data repeating as well as APRS.

On Tue, 8 Apr 2003, David Hinerman wrote:

> Karl,
>
> Please let us know the launch date, frequency(ies), and telemetry format.
>
> Is the gear suitable for the space environment? I know Kodak makes
> space-qualified imaging equipment, but not at consumer prices. And I don't
> think astronauts use HTs.
>
> Dave
>
>
>
> At 12:27 PM 4/8/2003 -0600, you wrote:
>
> > New Mexico State University and the Air Force are going to
> > launch a satellite into orbit having a Kodak digital camera taking
> > pictures, an APRS HT will be sending out it's gps position and telemetry
> > data for any Ham who wants to watch it pass over head.

> >
> > I am helping get the computer working properly. It is a tiny
> >88486 CPU with just a few ports and a 32 meg flash memory is all it has
> >period! The operating system is Linux Red Hat version 7.2 with a 2.4.19
> >kernel. It turns out you win when you put everything you need into the
> >kernel and use no modules.
> >
> > I bought a Garmin GEK0 201 GPS unit which is simply a great one.
> >It's equiped to use WASS accuracy data and 2 or more can be used in a
> >differencial GPS configuration and get accuracy of 2 inches.
> >
> >--
> >
> > - Karl Larsen k5di Las Cruces,NM Az ScQRPions -
>
> -----
> Dave Hinerman
> WD8CIV@worldnet.att.net
>
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Tue, 08 Apr 2003 17:22:37 -0500
From: mjfitz@uswest.net
To: qrp-l@Lehigh.EDU
Subject: [148768] FS: New SWL PSK20 Kit
Message-ID: <3E934BAD.42F25E08@uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

PSK31 Ops,

Have new unopened Small Wonder Labs PSK-20 kit complete
with documents. Priority mail CONUS shipping included...
\$85

Mike Fitzgibbon N0MF
Missouri Valley, IA

Date: Tue, 8 Apr 2003 19:07:39 -0400
From: "Mike Majority" <n4vbv@earthlink.net>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [148769] Portable Power Supply Capacity - [LONG]
Message-ID: <410-2200342823739218@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Finally sat down to test the Coleman Powermate battery capacity. This Powermate is the 2"x2"x12" (approx) made for emergency vehicle starting and advertises on the side the capability of 2 start attempts (from a full charge) 20 minutes apart. It has a male cigarette lighter plug and a female cigarette lighter-type receptacle, and weighs about 2 pounds (sold by radio shack). It is NOT the one with attached booster cables, light, etc.

This is a VERY unscientific test, since I don't own any fancy test equipment. For this test I used an "Arista" Portable 110VAC Power Inverter Model 52-700 that I've had for years (got it cheap but brand new). Says on the box it draws "less than 0.1 Amps", 90% efficiency, 140W continuous output power (200w peak). Output is listed as 115 VAC +- 10%, 60 Hz. For the inverter load (and timing) I used an old analog Westclock electric (corded) alarm clock that the label indicated was 120 VAC at 2.5 watts.

The plan - I charged the Powermate from the Explorer's cigarette lighter receptacle until the Powermate showed a full charge (indicated by the "charge light" ceasing to flash as listed on the side of the Powermate). I just plugged the clock (set to 12:00) into the inverter, then plugged the inverter into the Powermate (the receptacle is "hot" without pressing the switch), and let the setup run until I heard the low power alarm from the inverter (listed to activate at 10.6 VDC with inverter shutdown at 10.0 VDC). The clock timed 25 minutes until the low power warning. Since two available start attempts were advertised, I let the Powermate sit overnight, and tried again tonight. This time the low power warning came on in about 2-3 minutes. Yes, the "war department" was out of town while I had this contraption wired up on the desk!

Like I said, this was a very unscientific test, but do have my doubts about this thing charging a car battery enough for TWO or even one start attempts. Guess I'll recharge and try on the IC-706 MKII on QRP setting to see how long it lasts there. Might involve a trip back to Radio Shack to try another unit and see if mine is defective. It is convenient, but had hoped for a little more capacity based on the stated capability. Will also try with the SST-40 once it gets here and gets built. Might work fine on the SST or DSW rigs.

Hope this helps anyone looking at purchasing one of these since I made the original post about these being for sale at Radio Shack.

72,
Mike, N4VBV in South Carolina

--- Mike Majority
--- n4vbw@earthlink.net
--- EarthLink: The #1 provider of the Real Internet.

Date: Tue, 08 Apr 2003 19:14:53 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [148770] Interesting SMT Inductor observation...
Message-ID: <5.2.0.9.2.20030408191145.032cfa80@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I have been sorting my SMT parts (continually for what seems like AGES) remember the small aluminum cases I mentioned-coming from MicroMark, and have lately been finishing things off with the coils I have in several places. The range for SMT seems to be from 4.7nH (0.0047uH) through 1mH. A month or 2 ago I bought one of Brad Thompson's (AA1IP <brad.thompson@valley.net>) SMT coil assortments, and wanted to integrate them into my coils.

One of these was a TDK Ferrite Choke (120 ohms at 100Mhz) and it looked VERY similar to some I had already measured and sorted. Measuring this one with the AADE II (with is ESSENTIAL below 1uH since my Peak Atlas LCR stops there) it was ~ 3.8uH (or 3827 nH.) Looking in the small container from the appropriate case, no joy. The similarity is that both the 'new' TDKs and the older, sorted pieces have a virtually identical body with a pair of red-painted sides. I figured that maybe I'd better check these others.

They turned up in the 0.5-0.59uH (500-599nH) container. Measuring them again, it turns out they were lumped into that container a bit precipitously... the SMT 'coils' ranged from 418nH to almost 600nH. So... I set up the AADE II, dumped them on the clipboard with graph paper I use while sorting such things, and began sorting. There were about 20 or 30 total (these came from that shoebox-1/2-full [literally] of SMT 'floor-sweepings' I bought surplus a couple of years ago) and the procedure is to pick them up with the Pomona SMT tweezers, and see whether they belong in the 400-4499nH container, or the 500-599nH unit.

Now for the interesting thing I noticed. Once I was getting close to having all of them sorted, I noticed the large magnet self-attached to my desktop

receiver rack. Then I remembered that these were retrievable using the magnetism I have applied to the pair of fine needle-nose pliers I use for sorting them (when I don't HAVE to use the tweezers.) Hmmm... Magnetic... I thought: why not see how the inductance would behave around the strong magnet. I don't know why, but I always figured a magnet would INCREASE the inductance of such an inductor (that is, one whose core is clearly magnetic.)

OK... I took one of these inductors and measured it at 525nH (0.5mH) moved the magnet to the tabletop. Tried the backside (it's attached to a slightly larger, thin metal plate. Negligible. Next, I turned over the magnet, and brought the inductor near the 'face' of the 1.5" x 3.5" x 5/16" (3.5cm x 8.9cm x 0.8cm) magnet. Interesting: the inductance changed to ~ 200nH (0.2uH). Then, I moved the tweezers/inductor to the end of the magnet. Wow. The inductance went from its usual 525nH to 43nH (0.043uH)!!!

Finally, I tried moving the 'coil' all around the magnet, and found that the changes did indeed vary with distance, just as you'd expect, using the less-magnetic 'face' side of the magnet. It did not seem to matter which side/or end of the coil I used.

So, does anyone have an explanation for the REDUCTION in inductance this little (hopefully interesting) piece of playing around has indicated?

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

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LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."
--Mark Twain

Date: Tue, 08 Apr 2003 21:50:57 -0400
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [148771] 'Rock-Mite RTTY' project docs have begun...
Message-ID: <BAY1-F76YEdfSCPTd6k00061fd8@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I have begun documenting the 'Rock-Mite RTTY' project.
So far, only the interface schematic is up.
Soon, I will add a descriptive text file.
Hopefully, before too much longer, someone will answer one of my Rocky RTTY
CQs near 14058.8/14059.5 kHz and I'll put up a jpeg image of the Q.
Anybody heard Rocky RTTY yet?

box...there's a box?
73.
Bill, N4QA
<http://www.qsl.net/n4qa/>

Protect your PC - get McAfee.com VirusScan Online
<http://clinic.mcafee.com/clinic/ibuy/campaign.asp?cid=3963>

Date: Tue, 8 Apr 2003 19:29:28 -0700
From: "Dave Martin" <k2zu@seanet.com>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [148772] FS or Trade
Message-ID: <000501c2fe3f\$fc840360\$068c2640@davemartin>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Have a twin lever paddle made by HI-MOUND, in very good condition, for sale, make a reasonable offer, or maybe trade for a set of K8RA's paddles. Thanks.
Dave K2ZU

Date: Tue, 8 Apr 2003 21:56:45 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [148773] Re: Ten-Tec Argo V
Message-ID: <001b01c2fe43\$a8f57e00\$0100a8c0@MAIN>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Jim,

The Ten-Tec Argonaut V uses a shaft encoder for the VFO. It is all digital.

I really like the radio. There has already been a couple of reviews and threads about it. I'll highlight some of my thoughts and findings:

1. Ideal for a main rig in the house or mobile.
2. CW operation (QSK, etc.) is very good.
3. Great shortwave broadcast performance.
4. Heavy current consumption limits field use.
5. Very easy to use on PSK31 or any other "sound card" modes.
6. Extremely stable frequency with the TXCO. No detectable drift.
7. Great DX rig with split, band stacking registers, dual VFO's, 10Hz steps, etc.
8. Receiver is too hot. Haven't detected any strong signal problems but on 20m and down I usually have the 20dB attenuator on just to keep atmospheric and cosmic noise at bay. It would probably be great for your 160m beverage antennas however.
9. The shaft encoder failed after about a month in mine but Ten-Tec quickly shipped me another one and I installed it (I was in too much of a hurry to send it in for repair).
10. Repairing the rig is like working on your clothes dryer - lots of room and easy.
11. Excellent IF-DSP adjustable filtering (32 Settings). Very nice passband and bandstop performance. Skirts slightly wider than a good crystal filter but otherwise "textbook" perfect. I have not detected any DSP related artifacts.

12. When the IF filter is narrowed there is no other noise from the AF stages, etc.
 13. Does not have a RF Gain control and I miss it.
 14. Very smooth AGC. Almost don't miss the RF Gain control.
 15. AGC does NOT pump with signals outside the passband.
 16. All modes and bands already available.
 17. No option of internal antenna tuner (I don't need one).
 18. No internal batteries (not enough room for the car battery ;-)
 19. It is a software defined radio so upgrades are easy via the Web.
 20. Capable of 20 watts PEP but easy to adjust for QRP in all modes, down to 1 watt.
 21. Can be computer controlled.
 22. Adjustable noise blanker works good but will destroy the receiver performance IF set too high (like any noise blanker).
 23. Transmit SSB audio is superb but can clip easily if you don't follow the instructions.
 24. Has a speech processor but it doesn't seem to have much effect.
 25. Giant frequency display - good if you have vision problems.
 26. Lights too bright for camp site operation.
 27. Requires a cooling fan option for large duty cycle modes at full power.
 28. I've been using the rig heavily since February 14, 2003, not just overnight.
 29. A bit pricey but once you factor in the fact that there is nothing else to buy it doesn't seem so bad.
 30. And last but not least, it is an Argonaut, not an Argo!
- There has already been an Argo :-)

I think you can find out any other details from Ten-Tec's Web page or the CQ's and QST's reviews. The radio has a place but it is not for everyone.

73,
Steve Yates - AA5TB

<http://www.qsl.net/aa5tb/>>
>

Date: Tue, 8 Apr 2003 20:25:15 -0700 (PDT)
From: Jeff Furman <jfurman@ocs.net>
To: qrp-1@lehigh.edu
Subject: [148774] National Semiconductor Analog education site
Message-ID: <Pine.LNX.4.21.0304082017030.25270-100000@ocs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Nat Semi has organized a site to help potential analog chip users know what they are doing. I just received a notice of this site, so, I don't know its depth and breadth yet, but, it looks interesting. It looks like some of the old classic application notes with fundamentals are cited and linked.

<http://www.national.com/analogu/indexflat.html>

I don't know if you need a cookie (I likely have one from this site) to use this.

73, Jeff AD6MX

Date: Tue, 08 Apr 2003 23:15:54 -0500
From: "Merton Nellis" <mertnellis@msn.com>
To: n4xy@earthlink.net, qrp-1@Lehigh.EDU
Subject: [148775] Re: Interesting SMT Inductor observation...
Message-ID: <BAY4-F8Z50DVb69lzfB0002cec3@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi Ed,

Yes, inductors with magnetic material as cores change inductance from a maximum with no biasing magnetic field to a lower value as a bias field is applied. A coil with an high permeability iron core may have a high inductance with no external field applied but, If enough field is applied, the core can be saturated with magnetic flux so that the core then has a permeability close to that of air. That makes the coil inductance near that of an air wound coil. The bias field can be applied to a core with a separate winding carrying d.c. rather than with a permanent magnet. This principle is used to make saturable reactor controls and magnetic amplifiers. It is about like inserting and removing an iron core from a coil. You can imagine how that would work.

Learning by experimentation is fun and impressive.

Too bad I can't point you to some pictures on this subject but maybe someone

else will.

73/72 Mert W0UFO MNQRP

w0ufo@arrl.net

>From: Ed Tanton <n4xy@earthlink.net>

>Reply-To: n4xy@earthlink.net

>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

>Subject: Interesting SMT Inductor observation...

>Date: Tue, 08 Apr 2003 19:14:53 -0400

>

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>receiver rack. Then I remembered that these were retrievable using the
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>thought: why not see how the inductance would behave around the strong
>magnet. I don't know why, but I always figured a magnet would INCREASE the
>inductance of such an inductor (that is, one whose core is clearly
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>the magnet to the tabletop. Tried the backside (it's attached to a slightly
>larger, thin metal plate. Negligible. Next, I turned over the magnet, and
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>(0.2uH). Then, I moved the tweezers/inductor to the end of the magnet. Wow.
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>the changes did indeed vary with distance, just as you'd expect, using the
>less-magnetic 'face' side of the magnet. It did not seem to matter which
>side/or end of the coil I used.

>

>So, does anyone have an explanation for the REDUCTION in inductance this
>little (hopefully interesting) piece of playing around has indicated?

>

>73 Ed Tanton N4XY <n4xy@earthlink.net>

>

>Ed Tanton N4XY

>189 Pioneer Trail

>Marietta, GA 30068-3466

>

>website: <http://www.n4xy.com>

>

>All emails <IN> & <OUT> checked by

>Norton AntiVirus with AutoProtect

>

>LM: ARRL QCWA AMSAT & INDEXA;

>SEDXC NCDXA GACW QRP-ARCI

>OK-QRP QRP-L #758 K2 (FT) #00057

>

>-----

>"He that gives up a little liberty to gain
>temporary security will lose both and
>deserve neither".

>--Benjamin Franklin

>

>"Suppose you were an idiot ...

>and suppose you were a member of

>Congress... but I repeat myself."

>--Mark Twain

>-----

>

>

Tired of spam? Get advanced junk mail protection with MSN 8.

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Date: Wed, 9 Apr 2003 01:55:05 -0400
From: "sslyon" <sslyon@megalink.net>
To: "qrp list" <qrp-l@lehigh.edu>
Subject: [148776] SP posts?
Message-ID: <002e01c2fe5c\$9236b3a0\$0ac8e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Not sure what's going on, but I haven't seen any Spartan Sprint posts and didn't see mine either. Let's try again

In honor of my first Spartan Sprint in a long time, KD1JV stopped by and provided a beta version of his new "A-T Sprint" 3-band rig, a la Altoids. The class E final provides ~4W out @ 12vdc. (batt. pack warm in my pocket) RX is very quiet, sensitive, selective. Performance was outstanding and I'm sure you'll hear more about this one. Note that this rig is dense SMT and not for the beginner builder or vision impaired.

So, to get out of the "tubby" division, I spent the afternoon putting up & tweaking a tuned 40m doublet + feeder @ 55' direct to rig to avoid using a tuner. The 'bonus' for operating outside will be greatly appreciated. It was a FYBO 28 deg. F w/lite snow here in Maine woods. Apologies for the lousy fist due to the cold, and using gloves. (try paddles & logging w/gloves!)

40m seemed pretty good w/low-moderate activity and some QRN. Q's = 58; S/P/C/s = 30; Best DX: CA, WA, AK; lowest pwr: W3DP @500mW from Pa; all w/good sigs. Great to do an SP Sprint after a long lapse... thanks again, ARS. I'll see you next month... when it's warmer!

72

"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
FN44nj aa1my@arrl.net

Date: Wed, 9 Apr 2003 11:26:16 +0000 (GMT)
From: "Adam Vazquez Kb2Jpd" <adamvaz@palm.net>
To: <qrp-l@Lehigh.EDU>
Subject: [148777] sgc 2020 adsp
Message-ID: <20030409112616.2838A4516@mo130uhou.palm.net>
Mime-Version: 1.0

Content-Type: text/plain

I own the old SGC-2020 w/ the ADSP addition. Try to buy a new one. I found the original to be noisy on receive and the ADSP makes a huge difference. There is a T/R relay inside and the new ones with the new relays are quieter.

There are a lot of features that won't be available until you look at the documentation(keep that action card handy and laminated) . The new radios have pigtails now rather than chassis connectors for the antenna. Use tuned antennas for best reception. I bought the matching autotuner and that solved a lot of my problems.

Find someone local who owns one and see if you want one.

Adam Vazquez Kb2Jpd

This email was sent from my Palm(TM) i705 wireless handheld

"Be who you are and say what you feel because the people who mind
don't matter and the people who matter don't mind." - Dr. Seuss

Date: Wed, 09 Apr 2003 08:41:18 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [148778] Wake Up!
Message-ID: <3E9414EE.EC3E5EC6@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi there,

If you've heard about PLC (Power Line Communications), but are not sure what it could mean for hamradio, please visit the download section of the following site:

<http://www.powerline-plc.info/index.html>

There you will find some videos of surveys with a TS-50, AOR2000 and a FT-817 radio throughout some neighborhoods where PLC is implemented in Austria. The site is in German, but the interference shown in the videos crosses any language barrier.

Once you hear those sounds on your radio, you are too late to react.
After you watched a video just think of what it may mean for QRP
operations.

The Windows Media Videos didn't work for me. I did email them about it.

73,
--Alex KR1ST

Date: Wed, 9 Apr 2003 08:00:54 -0500
From: "David Bixler" <qrp@netins.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [148779] Four State QRP Group Wednesday Warble
Message-ID: <000201c2fe98\$0e0221a0\$e915b9cc@Host>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang:

The Four State QRP Group will have our Wednesday Warble tonight at 9 PM
central time. Look for us on or near to 3580.5 KHz on PSK-31 mode. All
QRP'ers within range are invited to drop in and say howdy.

This will be the first warble session since the change to daylight
savings time.

72, Dave

David Bixler W0CH
Seneca, Missouri

QRP: Little radios, Big Fun!

QRP Web Site: <http://w0ch.com>
Four State QRP Group: <http://w0ch.com/fsqrp>

Date: Wed, 09 Apr 2003 09:41:56 -0400
From: "Ron Pfeiffer" <n1zsw@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [148780] Results NEQRP SSB NET

Message-ID: <Law9-F62Qcaz5cBG83F000026d7@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Well there was noise and then there was noise from 7.275 - 7.285.
There was a strong QSO on 7.284 and a weak QSO on 7.277. I had operator error at 7:30 as I had the RIT on and was not transmitting where I thought I was!!! I should know better but I am getting used to a new radio.

About 7:45 I gave up a spun the dial and heard AA1MY, Seab, calling CQ on 7.290. I answered his call and we were later joined by K1CL and N1VS. There was also a South Carolina station that I couldn't copy. It wasn't the net but a great roundtable anyway. Good to get back on SSB and talk to friends.

Next week look up around 7.290.

Cheers til next week.

Ron

The new MSN 8: smart spam protection and 2 months FREE*
<http://join.msn.com/?page=features/junkmail>

Date: Wed, 9 Apr 2003 07:57:07 -0600
From: "John_Evans" <jaevans@mail.codenet.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <sslyon@megalink.net>
Subject: [148781] AT Sprint - was Re: SP posts?
Message-ID: <200304090757.AA889651356@mail.codenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

For those of us who have one on reserve, I wonder if it would be a good idea to create a separate list to cover this jewel.

I plan on building my "station" into a pencil box with AT Sprint in altoids, ZM-2 in a Whitman sampler tin, battery pack, paddle, headphones all in the box. I

already have my doublet package down to 6 oz. Teflon wire wrapped around a light pc board substrate that doubles as a writing surface.

Seab - thanks for the report.

72 - john - n0hj

----- Original Message -----

From: "sslyon" <sslyon@megalink.net>

Reply-To: sslyon@megalink.net

Date: Wed, 9 Apr 2003 01:55:05 -0400

>In honor of my first Spartan Sprint in a long time, KD1JV stopped by and
>provided a beta version of his new "A-T Sprint" 3-band rig, a la Altoids.

Date: Wed, 9 Apr 2003 13:58:55 +0000 (GMT)

From: "Adam Vazquez Kb2Jpd" <adamvaz@palm.net>

To: <qrp-1@Lehigh.EDU>

Subject: [148782] Re: Radix HF Dipoles

Message-ID: <20030409135855.D769E451B@mo110uhou.palm.net>

Mime-Version: 1.0

Content-Type: text/plain

Hi all.

Anyone with any information regarding the Japanese made Radix HF Dipole Antenna. I would like to duplicate it for my shack.

Adam Vazquez Kb2Jpd

This email was sent from my Palm(TM) i705 wireless handheld

"Be who you are and say what you feel because the people who mind
don't matter and the people who matter don't mind." - Dr. Seuss

Date: Wed, 09 Apr 2003 10:19:30 -0400

From: Alex <kr1st@amsat.org>

To: n1zsw@hotmail.com

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [148783] Re: Results NEQRP SSB NET

Message-ID: <3E942BF2.5A04D4BC@amsat.org>

MIME-version: 1.0

Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Ron Pfeiffer wrote:

> About 7:45 I gave up a spun the dial and heard AA1MY, Seab, calling
> CQ on 7.290. I answered his call and we were later joined by K1CL and
> N1VS. There was also a South Carolina station that I couldn't copy.

Me! Me! Me! It was me! :)

I heard you, K1CL and AA1MY, but not N1VS unfortunately. The noise level here was S8 to S9 and you guys were very close to it. K1CL was the strongest. I thought it was the net, but I was mistaken apparently. I appologize if I doubled with someone or if I was more QRM than anything else. Right after I found you guys some QRO QSO started 2 kHz down and I got interference from something that sounded like a chopper.

Rig is an IC-718, running 5 Watts into an inverted V with homebrew open wire. Apex at 60 feet.

73,
--Alex KR1ST

Date: Wed, 9 Apr 2003 10:19:38 -0400
From: "John Huffman" <hjohnc@core.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [148784] Spartan Sprint Logs Due
Message-ID: <001f01c2fea3\$0f518400\$90ac59cf@jhuffman1t>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang -

Just a reminder, logs from Monday's Spartan Sprint are due at noon Pacific time today.

Have 62 logs so far, but don't want to miss anyone.

To submit your log, just fill out the Autolog at:
www.natworld.com/ars/ss_log.html

73 de NA8M
John

Contest Manager
Adventure Radio Society

Date: Wed, 9 Apr 2003 11:19:35 EDT
From: N4SKS@cs.com
To: qrp-1@lehigh.edu
Subject: [148785] Free manuals READ
Message-ID: <146.eb8c188.2bc59407@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I am having to move again. This time I'm getting rid of a lot of stuff i've kept for ever. I have a few manuals and photocopies of manuals listed below. These are free but would appreciate if send me the postage after you get it. Please only request what you need . I'm sorry but will take the first response . Thank You

Hustler 4BTV Trap vertical manual
Hy-gain 2BDQ/2TDQ dipole manual
CDE Ham -m rotor manual
Henry 2K-3 amp manual
Yaesu G-450xl rotor manual.
Icom IC-740 HF rig manual
May find more later

72 Les

Date: Wed, 9 Apr 2003 11:25:48 EDT
From: N4SKS@cs.com
To: qrp-1@lehigh.edu
Subject: [148786] RIG Trade ?
Message-ID: <17b.187edc57.2bc5957c@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I have a brand new Icom IC-718 , zero tx time and less than 2hr rx time . It is sealed in the box as new also with it I have a new in the box SM-6 desk mike that matches it . Also a Astron RS-20 power supply(used) . The DSP unit is installed.

I would like a Basic K-2 built or not . SSB module OK but don't want tuner or any thing else. Thank You.

Also still have the Ten Tec Century 21 and matching 277 antenna tuner for sale or trade.

72 Les K4NK

Date: Wed, 09 Apr 2003 12:11:11 -0400 (Eastern Daylight Time)
From: W2AGN <w2agn@w2agn.net>
To: qrp-l@Lehigh.EDU
Subject: [148787] Weather/Band Conditions
Message-ID: <3E94461F.000003.98317@w2agn>
MIME-version: 1.0
Content-type: Text/Plain
Content-transfer-encoding: 7BIT

2 days of rain, and more rain forecast through Friday with temps in the upper 30's low 40's. Great hamming WX. Turned on new DSW-II....sounded dead, tried different antenna, still dead. Tried different rigs...STILL dead. Oops just what we needed, geomagnetic storm... Not even many spots on the DX Cluster.

Hope it clears up in time ARCI Spring QSO Party. Also hope everybody will be on for it! One of the 2 QRP biggies of the year! Hoping to break 1M score this year.

For now, guess I'll go read a book...

+---+---+---+---+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Wed, 9 Apr 2003 16:26:55 +0100
From: "Juan Ferrari" <puntrad@usa.net>
To: "Piggies-L" <fpqrp-l@mpna.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [148788] Antennex
Message-ID: <006a01c2feac\$76980720\$70c8b7c7@puntana.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi gang.

I am looking for the following article and I don't have access to Antennex's archives, so if any of you could retrieve and e-mail it to me I will be very grateful.

<<http://www.antennex.com/archive4/Nov00/Nov4/sma.htm>>

Tnx in advance es 72

Juan - KG4FSN

Date: Wed, 09 Apr 2003 09:34:27 -0700
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [148789] Re: Small satellite computer
Message-ID: <F97fx9lIGBrMyz984kq000195a1@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

A public answer to a private question: for amateur satellite frequencies and other information, have a look at AMSAT-NA's web site, <<http://www.amsat.org>>
Another fun one is <<http://www.rig.org.uk>> - weather satellites are the loudest signals you're likely to hear from space. Interesting pictures, too. I receive them with a modified Radio Shack scanner and my own home-made software.

While the amateur satellite program is not without its faults, many of the people involved do in fact know what they're doing, and were the first to make satellites that actually worked and did useful things with commercial off-the-shelf components. Carefully selected and qualified, of course, but still COTS, at a fraction of the usual cost.

There are all kinds of interesting things you can do in this area, but most have little to do with QRP. One of the standard references is Space Mission Analysis and Design ("smad" among the in-crowd) - well worth buying if you're at all interested in the real nuts and bolts. I note that amazon.com have a special on it, where you can buy it and Fundamentals of Astrodynamics ("Bate, Mueller and White" for the in-crowd - fab book!) at a special price.

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89lg pied a terre..."
ICBM: 49 16.57 N 123 0.24 W - Hospital/Shafte

Protect your PC - get McAfee.com VirusScan Online
<http://clinic.mcafee.com/clinic/ibuy/campaign.asp?cid=3963>

Date: Wed, 9 Apr 2003 09:35:15 -0700
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <qrp-l@Lehigh.EDU>
Subject: [148790] Re: AT Sprint - was Re: SP posts?
Message-ID: <001101c2feb6\$0007a840\$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

PLEASE, PLEASE do the discussion here. DON'T do a separate list. Now that this list is moderated, I think that it would be a great place to have a discussion of the new rig by Steve Weber. One of the greatest things ever to be on QRP-L was the Elmer 101 series. Then for a lot of reasons we don't need to go into, that all changed with the Elecraft split off, then QRP-F, and various other "separate lists". This division hurt the list badly in my opinion.. I have fond memories of all of the "Elmers" and the "Elmerees" exchanging information. Let's get back together and make this list like it was in the good old elmer 101 days. I would love to see that happen. 72,
Doug, KI6DS

Date: Wed, 9 Apr 2003 12:38:24 -0400
From: "Ed Kessler" <aa3sj@arrl.net>
To: qrp-l@Lehigh.EDU
Subject: [148791] FS: Ten Tec 1206 Transverter
Message-ID: <3E941440.24108.414DF60@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Finally got a respectable 6 Meter rig so this transverter is surplus to my needs.

The transverter was built by me last year and it works well. Looks new cosmetically.
Manual included.

Price: \$80 (includes shipping to CONUS).

73,
Ed AA3SJ

Date: Wed, 9 Apr 2003 11:43:43 -0500
From: "Walter AG5P" <walter@accessus.net>
To: <qrp-l@lehigh.edu>
Subject: [148792] Re: Radix HF Dipoles
Message-ID: <000f01c2feb7\$2f5ba280\$5e466ad8@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Adam and All;

Try <http://www.radix-inc.com/> and click on catalog.
There are some fair pixs that may give you more info.

Looks like a V bracket and a couple of extendable
fishing poles would get pretty close!

72/73...Walter, AG5P

Date: Wed, 9 Apr 2003 11:47:40 -0500
From: <stanw@toxsor.com>
To: <qrp-l@lehigh.edu>
Subject: [148793] Re: 'Rock-Mite RTTY' project docs have begun...
Message-ID: <000301c2feb7\$bffe9cc0\$0364010a@toxsor.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have seen your posts and I have a lot of questions. First your shift
will not be normal. You really want 170 hz or 850 hz, guess you are close
to 850 but very few people run 850 anymore. Next you need to move up the
band about 20 khz. I assum you are locking the key down in xmit ? The
Rock Mite was not really built for RTTY so guess you are using something
else as a receiver.

Seems like this is a poor use of a Rock Mite.

de Stan ak0b

Date: Wed, 09 Apr 2003 12:57:18 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [148794] Re: Weather/Band Conditions
Message-ID: <3E9450EE.34518BE8@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

W2AGN wrote:

> 2 days of rain, and more rain forecast through Friday with temps in the
> upper 30's low 40's. Great hamming WX.

Whenever I plan to participate in an operating event from home I hope
for rain because it reduces the powerline noise dramatically.

73,
--Alex KR1ST

Date: Wed, 9 Apr 2003 10:40:42 -0700 (PDT)
From: Trevor Jacobs <kg6cyn@earthlink.net>
To: ki6ds@dph.dpol.net,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [148795] Re: AT Sprint - was Re: SP posts?
Message-ID: <4384091.1049910042922.JavaMail.nobody@ernie.psp.pas.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I agree 100% with Doug on this! Besides, Steve only made a few of them and I
didn't jump on it fast enough ;-) I, as I'm sure that most of the folks on the
list, really enjoy those kinds of posts. Nice to hear what people are up to on the
home brew front.

72 - Trev KG6CYN
-----Original Message-----
From: Doug Hendricks <ki6ds@dph.dpol.net>

Sent: 04/09/03 09:35 AM

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: Re: AT Sprint - was Re: SP posts?

>

> PLEASE, PLEASE do the discussion here. DON'T do a separate list. Now that this list is moderated, I think that it would be a great place to have a discussion of the new rig by Steve Weber. One of the greatest things ever

to be on QRP-L was the Elmer 101 series. Then for a lot of reasons we don't

need to go into, that all changed with the Elecraft split off, then QRP-F, and various other "separate lists". This division hurt the list badly in my

opinion.. I have fond memories of all of the "Elmers" and the "Elmerees" exchanging information. Let's get back together and make this list like it

was in the good old elmer 101 days. I would love to see that happen. 72, Doug, KI6DS

>

73's Trev KG6CYN

<http://home.earthlink.net/~kg6cyn>

<http://www.qsl.net/kg6cyn>

Date: Wed, 9 Apr 2003 14:06:35 -0400

From: "KB9BVN" <brian@iquest.net>

To: <stanw@toxsox.com>,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [148796] Re: 'Rock-Mite RTTY' project docs have begun...

Message-ID: <002f01c2fec2\$c225c180\$4505020a@cincom.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

But Stan...when Bill gets this to work and starts having the occasional QSO...it'll ROCK.

An RTTY Rockmite is just the kind of thing that makes QRP and homebrewing a blast.

73 de KB9BVN

----- Original Message -----

From: <stanw@toxsor.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Wednesday, April 09, 2003 12:47 PM

Subject: Re: 'Rock-Mite RTTY' project docs have begun...

> I have seen your posts and I have a lot of questions. First your shift
> will not be normal. You really want 170 hz or 850 hz, guess you are
close
> to 850 but very few people run 850 anymore. Next you need to move up
the
> band about 20 khz. I assum you are locking the key down in xmit ?
The
> Rock Mite was not really built for RTTY so guess you are using something
> else as a receiver.
>
> Seems like this is a poor use of a Rock Mite.
>
> de Stan ak0b
>
>

Date: Wed, 9 Apr 2003 11:22:59 -0600 (MDT)

From: David Ek <ekdave@earthlink.net>

To: qrp-1@lehigh.edu

Subject: [148797] Re: Small satellite computer

Message-ID: <2085596.1049912594195.JavaMail.nobody@dewey.psp.pas.earthlink.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

All,

While Laura's assertion about the relevance of amateur satellites to QRP is perhaps correct (at least for "typical" QRP'ers), I feel compelled to point out that many amateur satellites are within reach of modest stations running QRP output power. Most hams know about the EasySats, AO-27 and UO-14, essentially FM repeaters that can be accessed using a simple dual-band HT and a directional antenna. I've done that many times, although at times only stations with higher power can get through because of the popularity of these satellites.

But, of more relevance to the APRS topic, PC-Sat and the ISS both have operating digipeaters on 2m that will repeat APRS packets, and they're *extremely* easy to work with just an HT, a TNC, and some APRS software. I run UIVIEW software on the

computer in my shack, with my computer connected to a PK232 TNC (which I acquired in a trade for QRP equipment) that outputs to my IC-706MKIIG running only a few watts into a plain old quarter-wave vertical (any 2m FM rig would do). No problem working PCSat or ISS when they're available. The same is true using my Kenwood TH-D7A(G) HT, which has a built-in TNC and software to run it. I even use the stock rubber duck antenna! It's a nice little package, but I have also used an FT-50R, PocketAPRS software running on my Palm m100, and the W2FS KISS TNC by John Hansen (a recent construction article from QST).

While satellite communications aren't necessarily interesting to those who view QRP as "low power, homebrew, and CW", they are certainly accessible to stations running QRP power levels. I expect that this will become even more so in the future with some of the satellites being designed or contemplated by AMSAT and other organizations.

73 de Dave NK0E

Laura wrote:

<snip>

There are all kinds of interesting things you can do in this area, but most have little to do with QRP.

<snip>

Date: Wed, 09 Apr 2003 14:33:36 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [148798] Re: Small satellite computer
Message-ID: <5.1.1.6.1.20030409142841.00a6bbc0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>While the amateur satellite program is not without
>its faults, many of the people involved do in fact know
>what they're doing, and were the first to make satellites
>that actually worked and did useful things with
>commercial off-the-shelf components.

Laura,

I hope I didn't sound like I was questioning anyone's abilities - I was just surprised that commercial and consumer gear even came close to being

spaceworthy.

> Carefully
>selected and qualified, of course, but still COTS, at
>a fraction of the usual cost.

No doubt. I know how hard it is just finding memory components to meet the industrial temp grades our products need. (I'd love to use a 512 MB Flash stick in my current product.)

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Wed, 9 Apr 2003 13:36:54 -0500
From: "Brockwell, Stephen E. CECOM SEC FSSE GPI"
 <steve.brockwell@us.army.mil>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [148799] Antenna reel in an altoids tin??
Message-ID: <D9781901107D6A4AB59B567ED74090B454DE66@pandora.fssec.army.mil>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

I've been trying to find the information on the internet about an antenna reel in an altoids tin that some qrp'er built. The spool inside the tin was made of copperclad board and it seems that it may have been a 20m antenna. I'm trying to get a whole station (rockmite, power supply, antenna, earbuds and log into a few altoids boxes for a very portable station.

Please let me know if you remember where it is.

TIA,
Steve KC5TTY
Elgin, Oklahoma

Date: Wed, 9 Apr 2003 14:03:36 -0500
From: "Brockwell, Stephen E. CECOM SEC FSSE GPI"
 <steve.brockwell@us.army.mil>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [148800] Re: AT Sprint - was Re: SP posts?

Message-ID: <D9781901107D6A4AB59B567ED74090B454DE67@pandora.fssec.army.mil>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Please do keep the discussion on this list. And after hearing the type of rig that N0HJ is putting together, I especially want to learn about that.

Steve KC5TTY
lost in Southwest Oklahoma

Date: Wed, 9 Apr 2003 15:10:10 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [148801] 2M beam from FM or TV antenna
Message-ID: <009001c2fecb\$b073f200\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A while back someone posted a link to an article on modifying various antennas for use as 2M beams. I didn't follow it up back then, but now I'm interested.

So...

Does anyone remember or have that link?

And...

Has anyone done the mods? How successful are they?

Mike

Date: Wed, 9 Apr 2003 12:44:53 -0700
From: Bob Nielsen <nielsen@oz.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [148802] Re: Small satellite computer
Message-ID: <20030409194453.GA9171@n7xy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Even in the early commercial satellites it was sometimes necessary to use what was commercially-available. I worked on the satellite programs at Hughes Aircraft in the early 1960s and often we bought commercial parts and did our own screening and burn-in because equivalent "space-qualified" components did not exist. Sometimes this backfired, however. On the Syncom satellites, we had a 7 GHz (referred to as KMC at the time) mixer which used germanium diodes. The "experts" decided, without telling those of us in the design area, that they needed to be burnt-in at the same temperatures used for silicon devices, which exceeded the allowable temperature for these diodes. The result was a 100% failure rate. Fortunately, NASA approved an exemption (the operational environment was pretty close to room temperature).

ATS-I had a cylindrical phased array of coaxial VHF dipoles and we needed a rotary joint to allow the antennas to deploy by rotating (once) a bit more than 90 degrees after launch, after the shroud had been ejected, to get them away from the plume of the rocket motor. We used a mated pair of male and female BNC connectors. The antenna system was still functional many years after its intended useful life.

73,
Bob, N7XY

On Wed, Apr 09, 2003 at 02:33:36PM -0400, David Hinerman wrote:

>
> >While the amateur satellite program is not without
> >its faults, many of the people involved do in fact know
> >what they're doing, and were the first to make satellites
> >that actually worked and did useful things with
> >commercial off-the-shelf components.
>
> Laura,
>
> I hope I didn't sound like I was questioning anyone's abilities - I was
> just surprised that commercial and consumer gear even came close to being
> spaceworthy.
>
> > Carefully
> >selected and qualified, of course, but still COTS, at
> >a fraction of the usual cost.
>
> No doubt. I know how hard it is just finding memory components to meet the
> industrial temp grades our products need. (I'd love to use a 512 MB Flash
> stick in my current product.)
>
> Dave

>
> -----
> Dave Hinerman
> WD8CIV@worldnet.att.net
>

End of QRP-L Digest 2885
